CONTENTS

Tectonophysics Volume 148

Research Papers

Island arc tectonics
Froidevaux, C. (Orsay, France), Uyeda, S. and Uyeshima, M. (Tokyo, Japan) 1

Paleomagnetics of Ringerike Old Red Sandstone and related rocks, southern Norway: implications for pre-Carboniferous separation of Baltica and British terranes
Douglass, D.N. (Hanover, N.H., U.S.A.) 11

Seismic anisotropy in mylonites: an example from the Mannin Thrust zone, southwest Connemara, Ireland
Chroston, P.N. (Norwich, Great Britain) and Max, M.D. (Dublin, Ireland) 29

Evolution of the stress field pattern in the south of the Rhine Graben from the Eocene to the present
Larroque, J.M. and Laurent, P. (Montpellier, France) 41

Monthly mean sea levels in Greece during 1969–1983 compared to relative vertical land movements measured over different timescales
Flemming, N.C. (Wormley, Surrey, Great Britain) and Woodworth, P.L. (Birkenhead, Merseyside, Great Britain) 59

Seismic moments of earthquakes at the western Hellenic arc and their application to the seismic hazard of the area
Tselentis, G.-A., Stavrakakis, G., Makropoulos, K., Latousakis, J. and Drakopoulos, J. (Athens, Greece) 73

Rates of crustal deformation in western Turkey as deduced from major earthquakes
Eyidoğan, H. (Istanbul, Turkey) 83

The Arabian Infracambrian extensional system
Husseini, M.I. (Damman, Saudi Arabia) 93

An offshore geophysical survey of the Freetown igneous complex, Sierra Leone
Mgbatogu, C.C.S. (Benin City, Nigeria), Jones, E.J.W. and Clayton, B.R. (London, Great Britain) 105

Relation between characteristics of seismic activity and neotectonics in Honshu, Japan
Oike, K. (Kyoto, Japan) and Huzita, K. (Nara, Japan) 115

Aftershocks of the western Argentina (Caucete) earthquake of 23 November 1977: some tectonic implications
Langer, C.J. (Denver, Colo., U.S.A.) and Bollinger, G.A. (Blacksburg, Va., U.S.A.) 131

Dislocation density: stress relationships in natural and synthetic sodium chloride
Beeman, M.L. and Kohlstedt, D.L. (Ithaca, N.Y., U.S.A.) 147

The shear strength of gypsum single crystals on three cleavage planes
Williams, S.C. (Baltimore, Md., U.S.A.) 163

Book Review

Earthquake Prediction by K. Mogi—B.P. Papazachos 175

Announcement 176

Errata 176

Review

The evolution of the Bouvet triple junction: implications of its absolute motion
Apotria, T.G. and Gray, N.H. (Storrs, Conn., U.S.A.) 177

Research Papers

Earthquake prediction: and empirical approach
Rikitake, T. (Tokyo, Japan) 195

Neogene tectonics in the Western Mediterranean may have caused the Messinian Salinity Crisis and an associated glacial event
Weijermars, R. (Uppsala, Sweden) 211
The Southern Iberian Shear Zone: a major boundary in the Hercynian folded belt
Crespo-Blanc, A. and Orozco, M. (Sevilla, Spain) 221
Tilted blocks pattern, paleostress orientation and amount of extension, related to Triassic early rifting of the Central Atlantic in the Amzri area (Argana Basin, Morocco)
Medina, F. (Rabat, Morocco) 229
Structure of the southern Senegalo-Mauritanian basin, West Africa, from geoelectrical studies
Ritz, M. and Bellion Y. (Dakar, Senegal) 235
East African Rift System: offset, age and tectonic significance of the Tanganyika–Rukwa–Malawi intracontinental transcurrent fault zone
Tiercelin, J.J. (Brest, France), Chorowicz, J. (Paris, France), Bellon, H. (Brest, France), Richert, J.P. (Pau, France), Mwanbene, J.T. (Dodoma, Tanzania) and Walgenwitz, F. (Pau, France) 241
Hercynian and Eocimmerian events in Afghanistan and adjoining regions
Boulin, J. (Marseille, France) 253
Late Cretaceous to Early Tertiary structural elements of West Kalimantan
Williams, P.R., Johnston, C.R., Almond, R.A. (Canberra, A.C.T., Australia) and Simamora, W.H. (Bandung, Indonesia) 279
Tectonothermics of the North American Great Plains basement
Drury, M.J. (Ottawa, Ont., Canada) 299
Some possible effects of consolidation on growth fault geometry
Haneberg, W.C. (Cincinnati, Ohio, U.S.A.) 309
A pulse method for studying thermal transport properties of sedimentary rocks
Dixon, G.S., Stephen, V.A. (Stillwater, Okla., U.S.A.) and Sahai, S.K. (Ponca City, Okla., U.S.A.) 317
Squeeze box in a centrifuge
Mulugeta, G. (Uppsala, Sweden) 323
Viscous flow around a rigid spherical body: a hydrodynamical approach
Masuda, T. and Ando, S. (Shizuoka, Japan) 337

Book Review
Continuum Theories in Solid Earth Physics by R. Teisseyre (Editor)—R.A. Uhrhammer 347